

# Environmental Management Performance Report

November 2001



**Pacific Northwest  
National Laboratory**

Operated by Battelle for the  
U.S. Department of Energy



**Department of Energy**  
Richland Operations Office

---

PREPARED FOR THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE  
OFFICE OF ENVIRONMENTAL MANAGEMENT

## Table of Contents

INTRODUCTION .....	1
EXECUTIVE SUMMARY.....	2
SAFETY OVERVIEW .....	2
COST/SCHEDULE PERFORMANCE STOPLIGHT.....	3
PROJECT PERFORMANCE SUMMARY .....	4
MISSION .....	4
ACTIVITY SUMMARY.....	4
PERFORMANCE DATA AND ANALYSIS .....	5

This document provides the Department of Energy Richland Operations Office (DOE-RL) with a report of the Pacific Northwest National Laboratory (PNNL) performance by Battelle Memorial Institute and its subcontractors.

In Section A, the Executive Summary, text and graphics report the safety metrics status for all PNNL activities. Senior management's overall performance assessment of all Environmental Management activities conducted at PNNL is presented in a stoplight chart.

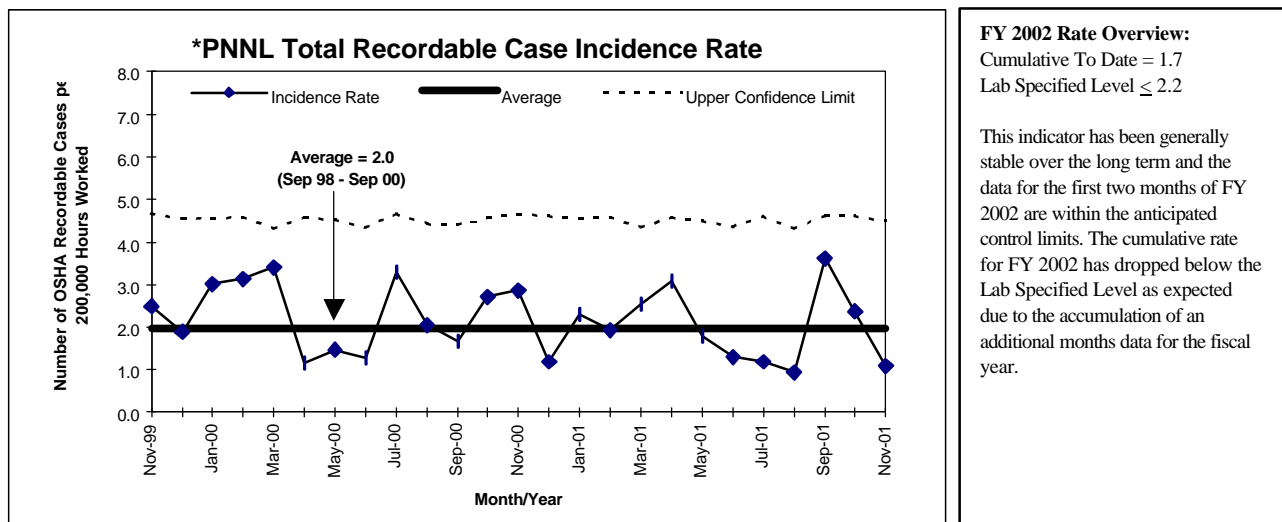
Section B, Project Performance Summary, provides a brief summary of the month's performance for the PNNL lead activity, PNNL Waste Management (PBS RL-SS01). More detailed information can be found within PNNL-7911-121a, PNNL's Quarterly Project Status Report, for the first quarter of fiscal year 2002. Summary analyses pertaining to PNNL's support to other Project Baseline Summaries (PBSs) are addressed in the contractor's report having lead responsibility for that scope.

Unless otherwise noted, information in this report is current as of November 25, 2001.

This section provides an executive-level summary of performance information and is intended to bring to management's attention that information considered to be most noteworthy. The section begins with overview of safety, a summary of FY 2002 performance, followed by a spotlight chart on overall performance.

## Safety Overview

The focus of this section is on documenting trends in lab wide work-related injury and illness rates. These are the same performance indicators as appear in the FY 2002 Battelle Performance Evaluation and Fee Agreement, which is part of the Pacific Northwest National Laboratory Operations Contract. The monthly rates for Recordable and Lost Workday cases are presented graphically in this section and are monitored for statistically significant changes. Current efforts to improve performance are being made through the implementation of the Integrated Safety Management System (ISMS) and Voluntary Protection Program (VPP).



Green

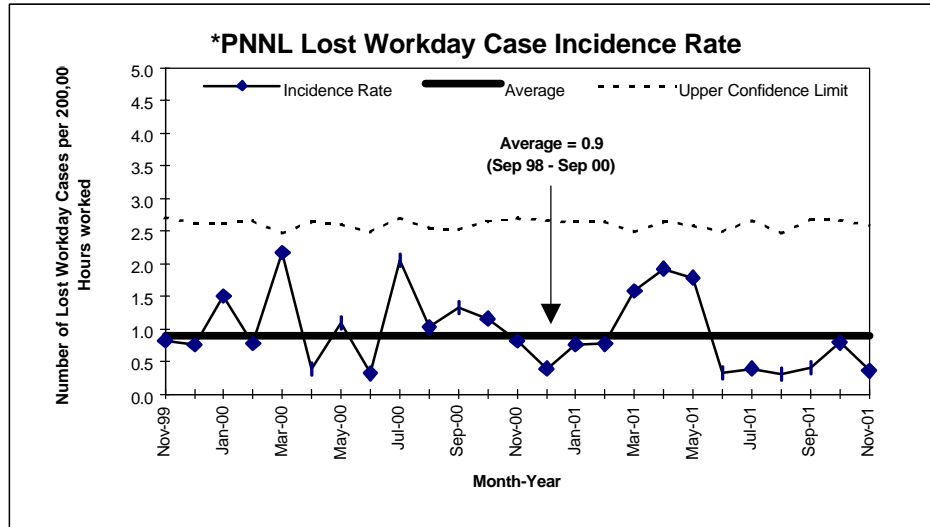
\*Includes all Pacific Northwest National Laboratory Operations.

Green: Satisfactory

Yellow: Significant improvement required

Red: Unsatisfactory

**PNNL Environmental Management Performance Report – November 2001**  
**Section A - Executive Summary**



**FY 2002 Rate Overview:**

Cumulative To Date =0.6

Lab Specified Level  $\leq 1.1$

This indicator has been generally stable over the long term. The data points for the first two months of FY 2002 are within the anticipated control limits and the cumulative rate for FY 2002 is currently below the Lab Specified Level.

**Green**

\*Includes all Pacific Northwest National Laboratory Operations.

Green: Satisfactory

Yellow: Significant improvement required

Red: Unsatisfactory

This section provides cost and schedule performance, any significant issues, and upcoming baseline change requests, if any, for the period covered. In FY 2002, Battelle Memorial Institute has lead responsibility over PBS RL-SS01, PNNL Waste Management WBS 3.4.1.7

## **Mission**

WBS 3.4.1.7 provides PNNL with waste management services and compliant operations in support of science and technology development for the multiprogramming needs of the U.S. Department of Energy (DOE) Complex. These services include:

- Essential surveillance and maintenance of DOE laboratory facilities assigned to PNNL for safe containment of radioactive and hazardous materials
- Infrastructure required to manage wastes and effluents currently generated at the PNNL
- Operational compliance services to meet regulatory requirements and operating permits including environment, safety, and health regulations
- Management of legacy wastes and contamination remaining from past PNNL research operations.

## **Activity Summary**

The following summarizes the activities associated with PNNL Waste Management services and operations conducted during November 2001.

- Scheduled Radiochemical Processing Laboratory (RPL) radiological surveys and nuclear control inspections were performed. Miscellaneous surveillance and maintenance was provided for all facilities as scheduled.
- Radiological air samples required during the month of November were collected and confirmed that all results received to date were within historical emission levels. The Environmental Molecular Science Laboratory (EMSL) monthly Discharge Monitoring Report (DMR) for October was submitted directly to the City of Richland on November 12, thereby satisfying the November deliverable within PNNL Key Milestone RLSS01F201. The DMR was submitted in accordance with Part III, Section A of Industrial Wastewater Discharge Permit No. CR-IU005. This report covered the period October 1 to October 31, 2001. All measured parameters for wastewater discharged to the Richland publicly owned treatment works were within permit limits.
- One hundred-one National Environmental Policy Act (NEPA) reviews were conducted and the Threshold Planning Quantity (TPQ) monthly review of the PNNL chemical inventory was conducted.
- A massive cleanout of legacy tank waste samples is in progress at the RPL in Room 517. Over 200 samples are to be disposed. Seventeen legacy waste items previously submitted for disposal and placed in 90-day areas have been transferred to the Radioactive Waste Operations group and are now in the Hazardous Waste Treatment Unit (HWTU) at RPL pending shipment.

## Performance Data and Analysis

As of November 25th, 2001, the cumulative costs are \$1.4M with a positive cost variance of \$.6M and a cumulative schedule variance of negative \$-.9M. The cumulative cost variance is 31% and the cumulative schedule variance is a negative 29%. These variances are largely due to fiscal year startup issues, delayed billings and working under DOE continuing resolution.

<b>Cost Performance (\$M):</b>			
	<b>BCWP</b>	<b>ACWP</b>	<b>Variance</b>
<b>PNNL Waste Management</b>	\$2.1	\$1.4	\$.6
<b>Schedule Performance (\$M):</b>			
	<b>BCWP</b>	<b>BCWS</b>	<b>Variance</b>
<b>PNNL Waste Management</b>	\$2.1	\$2.9	(\$0.9)

### **FY 2002 Cost/Schedule Performance - All Fund Types** **Cumulative to Date Status - (\$000)**

<b>WBS</b>	<b>PBS</b>	<b>BCWS</b>	<b>BCWP</b>	<b>ACWP</b>	<b>CV</b>	<b>%</b>	<b>SV</b>	<b>%</b>
3.4.1.7	RL-SS01	<u>\$2,949</u>	<u>\$2,079</u>	<u>\$1,438*</u>	<u>\$641</u>	<u>31</u>	<u>(\$870)</u>	<u>-29</u>
<b>Total</b>		<u>\$2,949</u>	<u>\$2,079</u>	<u>\$1,438*</u>	<u>\$641</u>	<u>31</u>	<u>(\$870)</u>	<u>-29</u>

\*PNNL has \$1.194M carryover, has requested \$20.044M B/A in FY 2002, for a total of \$21.238M. Current new B/A is \$1.5M.

## Cost/Schedule Performance Stoplight

The following rating reflects overall cost and schedule performance for activities conducted by PNNL. *(Narrative not required when rating is green.)*

<p>The cumulative cost variance is largely due to issues within the RPL and Legacy Waste Projects. Programmatic efficiencies and delayed billings attribute to the majority of the variance. The projects expect to complete within the approved budget.</p> <p>The cumulative schedule variance is largely due to fiscal year startup issues. Projects have been directed to work to FY01 allocations that were approximately 25% below planned project levels. A baseline change request will be processed to adjust the scope and schedule to reflect the FY02 authorized budget.</p>	<b>YELLOW</b>
--	---------------

Green: Satisfactory

Yellow: Significant improvement required

Red: Unsatisfactory

## PNNL Performance Data and Analysis

